

**Notice of Allowability**

Application No.

10/825,601

Applicant(s)

MORAN ET AL.

Examiner

Art Unit

My-Trang N. Ton

2816

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amdt. filed 7/20/05.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
MY-TRANG NUTON  
PRIMARY EXAMINER

## DETAILED ACTION

### *Drawings*

The corrected drawing was received on 7/20/05. This drawing is acceptable.

### Reasons for allowance

The following is an examiner's statement of reasons for allowance:

1. In response to Applicant's remarks filed on 7/20/05, the rejection made in the last Office action on the Johnson reference is withdrawn.

2. The present invention is drawn to a mixer circuit utilizing an input stage, a mixer stage and a injecting a compensation current means recited in claims 1-7. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: **"injecting a compensation current into the input stage so as to balance the differential current signals provided to the mixer stage"** in combination with "the input stage" and "the mixer stage" as recited in claims 1 and 7.

3. The prior art references submitted by the applicant on IDS form received on 4/16/04 was reviewed and considered. These references appear to be the best references with respect to the claimed invention and closely matched most of the references found during the examiner's searches. However, as noted above, the limitation **"injecting a compensation current into the input stage so as to balance the differential current signals provided to the mixer stage"** is not disclosed. Therefore, the claims are patentably distinct over all these prior art references of record.

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The newly prior art reference cited on PTOL-892 is for interest and documentation purposes only. The Hatcher et al (U.S Patent No. 6,535,725) also appears to be the best reference with respect to the claimed invention. However, similarly as noted above, the limitation **"injecting a compensation current into the input stage so as to balance the differential current signals provided to the mixer stage"** is not disclosed. Therefore, the claims are also patentably distinct over this prior art reference of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



My-Trang N. Ton  
Primary Examiner  
Art Unit 2816

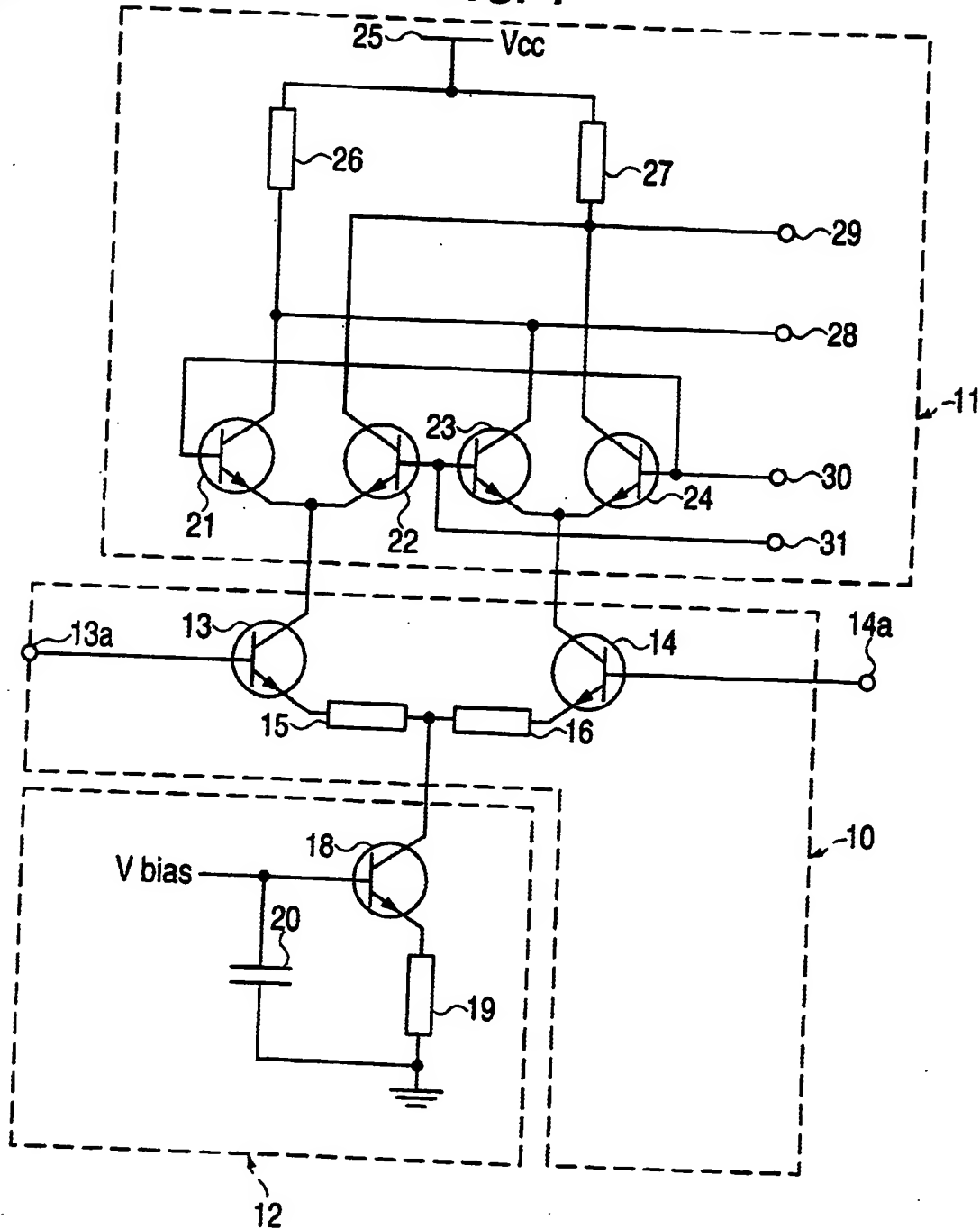
September 27, 2005

# Replacement Sheet

## PRIOR ART



**FIG. 1**



Customer No. 004372  
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 Telephone: (202) 857-6000  
 Docket No: 108347-00024  
 Filed: April 16, 2004, Serial No.: 10/825,601  
 Inventor: Andrew MORAN et al.